



JUL 26 2005

COVER PAGE

ANALYTICAL REPORT FOR
URS Operating Services

Phone (303) 291-8319 Fax (303) 291-8296

Form COVER-V1.4
07260511142788
Page 1

G056G01B

SDMS Document ID



1033618

URS Operating Services
Attention: Randy Perlis
1099 18th Street, Suite 710
Denver, CO 80202



DCL Report Group...: 05K-0361-03

Date Printed.....: 26-JUL-05 11:14

Project Protocol #: P0254002
Client Ref Number.: American Fork-Paci
Release Number....: American Fork-Paci

Analysis Method(s): 9040B

| <u>Client Sample Name</u> | <u>Laboratory Sample Name</u> | <u>Date Sampled</u> | <u>Date Received</u> |
|---------------------------|-------------------------------|---------------------|----------------------|
| LCS | QC-233860-1 | NA | NA |
| SW01 | 05E03053 | 14-JUL-05 | 14-JUL-05 |
| SW01 | 05E03053MD | 14-JUL-05 | 14-JUL-05 |


Analyst: Sarah C. Campbell Date: 7/26/05

Reviewer: Lisa M. Reid Date: 07-26-05

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547
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**FORM H (TYPE I)
SINGLE METHOD ANALYSES**Form RLIMS63H-V1.4
07260510484124

Page 2

SAMPLE GROUP COMMENTS

605601B

DCL Report Group...: 05E-0361-03

Date Printed.....: 26-JUL-05 10:48

Client Name...: URS Operating Services

Release Number.....: American Fork-Paci

General Information

The DCL QC Database maintains all numerical figures which are input from the pertinent data source. These data have not been rounded to significant figures nor have they been moisture corrected. Reports generated from the system, however, list data which have been rounded to the number of significant figures requested by the client or deemed appropriate for the method. This may create minor discrepancies between data which appear on the QC Summary Forms (Forms B-G) and those that would be calculated from rounded analytical results. Additionally, if a moisture correction is performed, differences will be observed between the QC data and the surrogate data reported on Form A (or other report forms) and corresponding data reported on QC Summary Forms. In these cases, the Form A will indicate the "Report Basis" as well as the moisture value used for making the correction.

Report generation options: BX

Result Symbol Definitions

- ND - Not Detected above the MDL (LLD or MDC for radiochemistry).
** - No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

- U - Not Detected above the MDL (LLD or MDC for radiochemistry).
B - For organic analyses the qualifier indicates that this analyte was found in the method blank. For inorganic analyses the qualifier signifies the value is between the MDL and PQL.
J - For organic analyses the qualifier indicates that the value is between the MDL and the PQL. It is also used for indicating an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

QC Flag Symbol Definitions

- * - Parameter outside of specified QC limits.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
07260511180228

Page 3

SAMPLE ANALYSIS DATA SHEET



S056G036

Date Printed.....: 26-JUL-05 11:18

Client Name.....: URS Operating Services
Client Ref Number.....: American Fork-Pacific Mine
Sampling Site.....: American Fork-Pacific
Release Number.....: American Fork-Pacific

Date Received.....: 14-JUL-05 00:00

Client Sample Name: SW01

DCL Sample Name....: 05B03053

DCL Report Group...: 05B-0361-03

Matrix.....: WATER

Date Sampled.....: 14-JUL-05 10:40

Reporting Units....: pH units

Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable

Date Prepared.....: Not Applicable

Preparation Method...: Not Applicable

Aliquot Weight/Volume: Not Applicable

Net Weight/Volume....: Not Required

DCL Analysis Group: G056L018

Analysis Method....: 9040B

Instrument Type....: PP

Instrument ID.....: ORION 720A+

Column Type.....: Not Applicable

Analytical Results

| Analyte | Date Analyzed | MDL | Result | Comment | Qual. | Dilution | PQL |
|---------|-----------------|---------|--------|---------|-------|----------|---------|
| pH | 18-JUL-05 00:00 | +/- 0.1 | 4.79 | | | 1 | +/- 0.1 |

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FORM B (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)

Form RLIMS63B-V1.4
07260510484124

Page 4



S056L0C7

Client Name.....: URS Operating Services
Release Number.....: American Fork-Pacific

Matrix.....: WATER
Reporting Units.....: pH units

DCL Sample Name....: QC-233860-1
Date Printed.....: 26-JUL-05 10:48

DCL Analysis Group: G056L018
Analysis Method....: 150.1
Instrument Type....: PP
Instrument ID.....: ORION 720A+
Column Type.....: Not Applicable

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable

QC Limit Type.....: Method

Analytical Results

| Analyte | Date Analyzed | Target | Result | Percent Recovery | QC Limits | QC Flag |
|---------|-----------------|--------|--------|------------------|-----------|---------|
| pH | 16-JUL-05 10:57 | 8.00 | 8.06 | 101. | 95.0/105. | |

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FORM E (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
MATRIX DUPLICATE SAMPLE

Form RLIMS63E-V1.4
07260510484124

Page 5



S056L0C8

Client Name.....: URS Operating Services
Release Number.....: American Fork-Pacific

Matrix.....: WATER
Reporting Units.....: pH units

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method....: Not Applicable

DCL Sample Name....: 05B03053MD
Date Printed.....: 26-JUL-05 10:48

DCL Analysis Group: G056L018
Analysis Method....: 150.1
Instrument Type....: PP
Instrument ID.....: ORION 720A+
Column Type.....: Not Applicable

QC Limit Type.....: Method

Analytical Results

| Analyte | Date Analyzed | Sample Result | Duplicate Result | Mean | Range | RPD | QC Limits | QC Flag |
|---------|-----------------|---------------|------------------|------|--------|------|-----------|---------|
| pH | 18-JUL-05 10:57 | 4.79 | 4.81 | 4.80 | 0.0200 | 0.42 | 0.00/20.0 | |

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ANALYTICAL REPORT FOR
URS Operating Services

Phone (303) 291-8319 Fax (303) 291-8296

Form COVER-V1.4
07260511165619
Page 1



G056G01F

URS Operating Services
Attention: Randy Perlis
1099 18th Street, Suite 710
Denver, CO 80202

DCL Report Group.: 05B-0361-06

Date Printed.....: 26-JUL-05 11:16

Project Protocol #: P0254002

Client Ref Number.: American Fork-Paci

Release Number.....: American Fork-Paci

Analysis Method(s): 9045C

| <u>Client Sample Name</u> | <u>Laboratory Sample Name</u> | <u>Date Sampled</u> | <u>Date Received</u> |
|---------------------------|-------------------------------|---------------------|----------------------|
| SE01 | 05E03052 | 14-JUL-05 | 14-JUL-05 |
| SE01 | 05E03052MD | 14-JUL-05 | 14-JUL-05 |
| LCS | QC-233860-1 | NA | NA |

Sarah C. Campbell 7/26/05
Analyst: Sarah C. Campbell Date
Lisa H. Reid 07-26-05
Reviewer: Lisa H. Reid Date

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FORM H (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63H-V1.4
07260510481654
Page 2

SAMPLE GROUP COMMENTS



Client Name...: URS Operating Services

DCL Report Group...: 05E-0361-06
Date Printed...: 26-JUL-05 10:48

Release Number...: American Fork-Paci

General Information

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Report generation options: BX

Result Symbol Definitions

- ND - Not Detected above the MDL (LLD or MDC for radiochemistry).
- ** - No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

- U - Not Detected above the MDL (LLD or MDC for radiochemistry).
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- J - For organic analyses the qualifier indicates that the value is between the MDL and the PQL. It is also used for indicating an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

QC Flag Symbol Definitions

- * - Parameter outside of specified QC limits.

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**FORM A (TYPE I)
SINGLE METHOD ANALYSES**

Form RLIMS63A-V1.4
07260514335194
Page 3

SAMPLE ANALYSIS DATA SHEET



Date Printed.....: 26-JUL-05 14:33

Client Sample Name: SB01

Client Name.....: URS Operating Services
Client Ref Number....: American Fork-Pacific Mine
Sampling Site.....: American Fork-Pacific
Release Number.....: American Fork-Pacific

DCL Sample Name....: 05803052

DCL Report Group...: 05E-0361-06

Date Received.....: 14-JUL-05 00:00

Matrix.....: SOIL

Date Sampled.....: 14-JUL-05 10:35

Reporting Units....: pH units

Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method....: Not Applicable
Aliquot Weight/Volume: Not Applicable
Net Weight/Volume....: Not Required

DCL Analysis Group: 0056L018
Analysis Method....: 9045C
Instrument Type....: PP
Instrument ID.....: ORION 720A+
Column Type.....: Not Applicable

Analytical Results

| Analyte | Date Analyzed | MDL | Result | Comment | Qual. | Dilution | PQL |
|---------|-----------------|---------|--------|---------|-------|----------|---------|
| pH | 14-JUL-05 00:00 | +/- 0.1 | 7.31 | | | 1 | +/- 0.1 |

Sample Comments

Sample pH measured in water at 23.4° C.

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FORM B (TYPE I)
SINGLE METHOD ANALYSES

QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)

Form RLIMS63B-V1.4
07260510481654
Page 4



Client Name.....: URS Operating Services
Release Number.....: American Fork-Pacific

Matrix.....: WATER
Reporting Units.....: pH units

DCL Sample Name....: QC-233860-1
Date Printed.....: 26-JUL-05 10:48

DCL Analysis Group: G056L019
Analysis Method....: 150.1
Instrument Type....: FP
Instrument ID.....: ORION 720A+
Column Type.....: Not Applicable

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method....: Not Applicable

QC Limit Type.....: Method

Analytical Results

| Analyte | Date Analyzed | Target | Result | Percent Recovery | QC Limits | QC Flag |
|---------|-----------------|--------|--------|------------------|-----------|---------|
| pH | 18-JUL-05 10:57 | 8.00 | 8.06 | 101. | 95.0/105. | |

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**FORM E (TYPE I)
SINGLE METHOD ANALYSES**

Form RLIMS63E-V1.4
07260514335194

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**QUALITY CONTROL DATA SHEET
MATRIX DUPLICATE SAMPLE**



Client Name.....: URS Operating Services
Release Number.....: American Fork-Pacific

Matrix.....: WATER
Reporting Units.....: pH units

DCL Preparation Group: Not Applicable
Date Prepared.....: Not Applicable
Preparation Method...: Not Applicable

DCL Sample Name....: 05B03052ND
Date Printed.....: 26-JUL-05 14:33

DCL Analysis Group: G0561018
Analysis Method....: 150.1
Instrument Type....: PP
Instrument ID.....: ORION 720A+
Column Type.....: Not Applicable

QC Limit Type.....: Method

Analytical Results

| Analyte | Date Analyzed | Sample Result | Duplicate Result | Mean | Range | RPD | QC Limits | QC Flag |
|---------|-----------------|---------------|------------------|------|--------|------|-----------|---------|
| pH | 18-JUL-05 00:00 | 7.31 | 7.30 | 7.31 | 0.0100 | 0.14 | 0.00/20.0 | |

Sample Comments

Sample pH measured in water at 23.8° C.

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DEE-0301

UOS URS Operating Services, Inc.
1099 18th Street, Suite 710, Denver, CO 80202

SHIP TO:

CHAIN OF CUSTODY RECORD

PROJECT NO./NAME:

Pacific Mine Seep

SITE MANAGER:

PETER STEVENSON

SAMPLER'S SIGNATURE:

STATION NO.

DATE

TIME

COMP.

GRAB

STATION LOCATION

Number of Containers

Sediment
Total Metals
Water
Total Metals
Water - pH

REMARKS

SE 01

7/14/05 1025

X

Seep below Vactor

1

✓

Water -

Total Metals

1

SE 01/02

SW 01

7/14/05 1040

X

Seep

3

2

1

LEO

Water Metals - depressed

RELINQUISHED BY: (Signature)

DATE TIME

7/14/05 1340

RECEIVED BY: (Signature)

✓

RELINQUISHED BY: (Signature)

DATE TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE TIME

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DATE TIME

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DATE TIME

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Pink - UOS Field Office

DN 5270